

Applicant: SALMIVALLI  
Serial No: 10/014,804  
Filing Date: December 14, 2001  
Page: 2 of 11

**Amendments to the Claims:**

This listing of claims replaces all prior versions, and listings, of claims in this application.

1. (Currently Amended): A method for detecting a copied international mobile equipment identity in a mobile system in which at least one international mobile subscriber identity and a mobile equipment identity is associated with a mobile station, the method comprising;

(i) creating a database containing records which each contain a mobile equipment identity associated with a mobile station and at least one mobile subscriber identity,

(ii) the mobile station transmitting the mobile equipment identity associated with the mobile station and at least one mobile subscriber identity,

(iii) checking first whether there is a record in the database, which contains a mobile equipment identity corresponding to the mobile equipment identity transmitted by the mobile station, and

(iv) if there is said record in the database, checking further in response to said record being found whether the record includes a mobile subscriber identity corresponding to the mobile subscriber identity transmitted by the mobile station, and, if there is no record in the database, producing at least a signal indicating that the mobile equipment identity is possibly a copied one.

2. (Previously Presented): A method as claimed in claim 1, wherein if the database contains a record which contains a mobile equipment identity corresponding to the mobile equipment identity transmitted by the mobile station, but whose mobile subscriber identity does not correspond to that transmitted by the mobile station, the operation of the mobile station is prevented.

3. (Currently Amended): A method as claimed in claim 2, wherein checking the mobile equipment identity step (iii) is performed when the mobile station registers into the mobile system.

Applicant: SALMIVALLI  
Serial No: 10/014,804  
Filing Date: December 14, 2001  
Page: 3 of 11

4. (Currently Amended): A method as claimed in claim 2, wherein checking the mobile equipment identify step (iii) is performed when the mobile station updates its location.

5. (Currently Amended): A method of claim 2, wherein checking the mobile equipment identify step (iii) is performed at predefined intervals.

6. (Previously Presented): A method as claimed in claim 1, wherein the database is created in the home location register.

7. (Currently Amended): A mobile system comprising:  
a receiving device configured to receive ~~means for receiving~~ an international mobile equipment identity and at least one international mobile subscriber identity from at least one mobile station[[.]] ;

a database configured to contain ~~containing~~ records, each containing a mobile equipment identity associated with a mobile station and at least one mobile subscriber identity [[.]] ;

a first identity device configured to ~~means for first check~~ checking whether the database contains a record which contains a mobile equipment identity corresponding to the mobile equipment identity transmitted by the mobile station;

a second identity device configured to further check, ~~but, when checking further in response to said record being found by the first identity device, whose whether a mobile subscriber identity contained in said record corresponds does not correspond~~ to that transmitted by the mobile station [[.]] ; and

an alert device configured, ~~second means responsive in response~~ to the second identity device ~~first means~~ to produce a signal indicating that the mobile equipment identity is possibly a copied one.

Applicant: SALMIVALLI  
Serial No: 10/014,804  
Filing Date: December 14, 2001  
Page: 4 of 11

8. (Currently Amended): A mobile system as claimed in claim 7, comprising a third device means responsive to the first identity device configured to prevent means for preventing the use of the mobile station.

9. (Cancelled).

10. (Currently Amended): An element of a mobile network comprising:  
means for receiving an international mobile equipment identity and at least one international mobile subscriber identity from at least one mobile station [[,]] ;

means for requesting at least one international mobile subscriber identity from a database on the basis of the international mobile equipment identity received from at least one mobile station, said database containing records, each record containing a mobile equipment identity associated with a mobile station and at least one mobile subscriber identity, wherein the mobile equipment identity associated with the mobile station is registered in the mobile system;

first means for checking, whether the international mobile subscriber identity corresponds to the international mobile subscriber identity first transmitted by the mobile station [[,]] ; and

second means responsive to the first means to produce, if the international mobile subscriber identity does not correspond to the international mobile subscriber identity transmitted by the mobile station, at least a signal indicating that the mobile equipment identity is possibly a copied one.

11. (Previously Presented): An element as claimed in claim 10, wherein the database is located within the element.

12. (New): An element of a mobile network comprising:  
a receiving unit configured to receive an international mobile equipment identity and at least one international mobile subscriber identity from at least one mobile station;

Applicant: SALMIVALLI  
Serial No: 10/014,804  
Filing Date: December 14, 2001  
Page: 5 of 11

a request unit configured to request at least one international mobile subscriber identity from a database on the basis of the international mobile equipment identity received from at least one mobile station, said database containing records, each record containing a mobile equipment identity associated with a mobile station and at least one mobile subscriber identity, wherein the mobile equipment identify associated with the mobile station is an registered in the mobile system;

an identification unit configured to check whether the international mobile subscriber identity corresponds to the international mobile subscriber identity first transmitted by the mobile station; and

an indication unit configured to produce, in response to the identification unit, at least a signal indicating that the mobile equipment identity is possibly a copied one, if the international mobile subscriber identity does not correspond to the international mobile subscriber identity transmitted by the mobile station.

13. (New): A computer program product embodied in a computer readable medium for detecting a copied international mobile equipment identity in a mobile system in which at least one international mobile subscriber identity and a mobile equipment identity is associated with a mobile station, comprising:

a database configured to contain records, each of which contains a mobile equipment identity associated with a mobile station and at least one mobile subscriber identity;

an input for receiving an international mobile equipment identity and at least one international mobile subscriber identity from at least one mobile station;

a requester configured to requesting at least one international mobile subscriber identity from the database on the basis of the received international mobile equipment identity, wherein the mobile equipment identify associated with the mobile station is an registered in the mobile system;

a comparator configured to compare the requested international mobile subscriber identity corresponds to the received international mobile subscriber identity; and

an output configured to, responsive to a result of the comparator, produce, if the requested international mobile subscriber identity does not correspond to the received

Applicant: SALMIVALLI  
Serial No: 10/014,804  
Filing Date: December 14, 2001  
Page: 6 of 11

international mobile subscriber identity, at least a signal indicating that the mobile equipment identity is possibly a copied one.